# PATENT COOPERATION TREATY PCT

## INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference

FOR FURTHER

04299PCT	ACTION	as well as, where applicable, item 5 below.
International application No. PCT/JP2005/002951	International filing date(day/mont	(Earliest) Priority Date (day/month/year) 18.02.2004
Applicant RICOH COMPANY, LTD.		
to Article 18. A copy is being transmitte This international search report consists	d to the International Bureau.	ing Authority and is transmitted to the applicant according
language in which it was filed,  the international sea this Authority (Rule b.  With regard to any nucleo	unless otherwise indicated under thi rich was carried out on the basis of a 23.1(b)).  stide and/or amino acid sequence of ad unsearchable (See Box II).	i out on the basis of the international application in the sitem.  translation of the international application furnished to disclosed in the international application, see Box No. I
4. With regard to the title,		
	submitted by the applicant. shed by this Authority to read as:	follows:
5. With regard to the abstract,	obmitted by the applicant.	

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_1

none of the figures is to be published with the abstract.

 □ as selected by this Authority, because the applicant failed to suggest a figure.

 □ as selected by this Authority, because this figure better characterizes the invention.

see Form PCT/ISA/220

as well as, where applicable, item 5 below.

as suggested by the applicant.

6. With regard to the drawings,

### INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/002951

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A power-supply apparatus for outputting a voltage via one or more switching elements is disclosed. The apparatus includes a voltage-generating circuit for generating an output voltage Vo proportional to a voltage between an input end and an output end of the switching element, and a control circuit for controlling an operation of the switching element depending on the output voltage Vo. The control circuit causes the switching element to reduce an output current when the output voltage Vo exceeds a predetermined voltage Vs.

#### CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7 H03K17/08, G05F1/56, H03K17/687

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.7 H03K17/00-17/70, G05F1/56

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Re	levant	to claim No.
X Y	JP 2002-231949 A(NEC Kansai Co., Ltd.)2002.08.16, column 11, Fig.1 (Family:none)		2, 4,	1
A	JP 2002-100972 A (Matsushita Electric Industrial Co., Ltd.) 2002.04.05, column 30, Fig.3 & <u>US</u> 2002/039037 A1	3,	4	
Y	JP 2000-509933 A (KONINKLUKE PHILIPS ELECTRONICS N.V.) 2000.08.02, lines 16-26, page 4, Fig.7a & EP 0904636 Al	9		

_	Further documents are listed in the continuation of Box C.				
•	Special categories of cited documents:	"Т			

See patent family annex.

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other
- means document published prior to the international filing date but later
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

than the priority date claimed	"&" document member of the same patent i	amily		
Date of the actual completion of the international search	Date of mailing of the international search report			
12.05.2005	31. 5. 2005			
Name and mailing address of the ISA/JP	Authorized officer	Ev.	3363	
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